IN CODE WE TRUST

I-FRAME de VE3PKT

.--. --- -

Newsletter of the

HAMILTON & AREA PACKET NETWORK

2391 Arnold Crescent,
Burlington, Ontario, Canada, L7P 4J2

July 21, 1983.

Hank S. Magnuski, KA6M,
311 Stanford Avenue,
Menlo Park,
California, 94025.

Dear Hank:

I have been meaning to write for quite a while to find out how your Packet stuff is going. However, in the last issue of QEX, I saw you also wear a hat re AMSAT AMICON. Since I am just getting interested in Phase III operations, particularly as related to packet, I thought it appropriate to contact you to identify my interest.

There are several people in the area who are active on packet, who are in the same position as I. We would like to begin looking at the facilities offered by the satellite. A veteran AMSAT member and satellite user, John Mitton, VE3IXT, is on the other side of the coin, so to speak: quite knowledgable about operations and interested in getting into packet. I know this group would be interested in current activities, and I believe at least two of us (John and myself) would be willing to contribute what we can to the development.

We have little background information on AMICON, however. Could you send information or indicate if documents are available thru AMSAT at P.O.Box 27, or thru some other member.

Hoping to hear from you soon, I remain,

Yours sincerely,

Stu

G. Stewart Beal, VE3MWM

Cliff Buttschardt
W6HDO
950 Pacific St.
Morro Bay, Calif
93442
(805) 772 2132

June 26 83

Hello again Hank...

I've been on the border of writing you for some time now since out last communication over a year ago. This last regarding the packet repeater in the bay area. I could not come up to those meetings but told a number of friends about your get togethers and they attended. Since that time you got yourselve highly involved with AMSAT----and I am very glad you did!

Regarding the last, I want to be sure and get three names on your listing for the SSC efforts on OSCAR Phase IIIB, which I think we can now call OSCAR ten since it is in orbit (and very sucessfully being heard!)

Two of us have been hatching a plan for use of the special service channel since the original request came out in last months QST. Since we do not have a firm plan, BUT the request in QEX does not require this, I am amking our names known.

The first is the information in the upper right hand corner of the letter, which is my identification. I can act on the behalf of the next two:

Ed English W6WYQ
1841 Pinecove Dr.
San Luis Obispo, Calif
93401
(805) 543 0543

Cuesta College Amateur Radio Club
P.O. Box J
San Luis Obispo, Calif
93401
(805) 544 2943

Ed English is chairman of the Engineering Department and Trustee of the club. I am his night time engineering instructor. Both of us have over the last five years, promoted 70 acres of property and made something of an experimental antenna farm of it. The property is multiple use in that jogging trails, Horticultural displays, etc share use. We now have the 160 meter quarter wave installed, the log periotic rotatable yagi (modified for 7 MHz low freq cutoff), 2000 foot beverage and devoted ham shack started.

More importantly that all this is the notion that Ed and I are life members of AMSAT and active as can be. We are NOT well informed on packet systems but have the Cuesta College repeater now on 146.105/146.705 running RTTY with packet plans when we know more. (You probably wonder about the 5KHz offet---it's because the station computer--APPLE II, has a birdie on .100 and we want to be able to remain on the SF/LA RTTY repeater freqs!)

over

As for mode of operation, we can either operate as a club or as individuals. Ed and I have mode J stations but I am about to conclude the futility of each individual having a mode L station when it really requires the facilities of two or more individuals to operate reasonably well! Ed and I both have 24 hour per day access. The students do not, however.

After rambling on in this manner, I find it awfully hard to conclude this note! I do want to let you know of the facility and interest not drawing a conclusion at this time..

73

Cliff

W6HDO

June 29, 1983
125 Forest Park Ln.
Hoffman Estates, IL 60194
(312)885-7713

Hank Magnuski
311 Stanford Ave.
Menlo Park, CA 94025

Dear Hank:

I read your request for information on potential AMICON users in June QEX. I am interested in participating at some time in the future. I say the future because I will have to construct most of the radio equipment needed for access. I need some questions answered about AMICON in order to plan the needed equipment. The first is as to what modulation method is going to be used, is it going to be BPSK, APSK or AFSK? What premodulation filtering, bandwidth and/or frequency shift is going to be used? What is the protocol going to be? What will the data rate be?

I plan on building a station for mode B. I have a Drake 4-line pair for use as tunable IF and possibly as an exciter for up-conversion. Antennas will have to be considered also. The TNC in use here is a TAPR beta board and the net is on 144.95 MHz using AX.25. Initially I will probably be an individual user but in time I could be a store and forward for the net or act as a gateway, as the packet club is getting one of the new TAPR TNC kits which I could use as I am the President.

Thank You,

Gary Kaatz

Gary Kaatz W9TD

F.

August 31, 1983

Dear Hank,

As part of the PACSAT design team, I am interested in spreading packet radio technology to interested amateurs. During the most recent PACSAT design review meeting, Larry Kayser VE3QB thought that there might be a need for a packet beacon on OSCAR 10. He argued that interested amateurs who may not live close enough to another interested amateur would then have access to packets, and could prepare their station for PACSAT.

What I am proposing to you as the AMICON SSC Coordinator is the following: A packet radio beacon to be sent once every minute on the minute (syncronized to WWV). The information to be contained in that packet could start out as simple as just the date and consecutive packet number for that day. The format could be expanded as the need presented itself. I am proposing that a speed of 300 baud be used to start with. The speed could be increased to 1200 baud at a later time or perhaps alternated in time.

I am in the process of setting up my home station with a 435 ten watt transmitter and Dom Mallozi, N1DM, is winding me a helix with about 15 dB gain. My antenna pointing system will be driven by a VIC 20 and the packets will be generated by a custom board built by Jim Welch, W1XR, another PACSAT design team member.

I know that the AMICON channel is presently being used by amateurs experimenting with packet radio. I believe that a beacon on the AMICON channel would be very usefull to the amateur community and would help to spur interest in packet radio. And that the small amount of time the beacon would be on would not adversly affect other amateurs using the channel.

What are your thoughts on the subject? Please feel free to call me at work at: (800) 225-0654 x3620 I am looking forward to hearing from you.

73,

Andrew J. Deskur KA1M
71 Adams Ave.
Methuen, MA 01844
(617) 688-0210

Dear Hank,

As per the list of potential packet radio users of the AMICON SSC pr A-0-10, here is the info you requested:

ED V. SHRUM, WZIKI
12 HARRISON AVE
RED BANK, N.J. 07701

NET ADDRESS: WZIKI

EQPT: HOMEBREW 435 mHz, 30 WATTS, 10 TURN HELIX
" 1.269 gHz, 15 WATTS, 1.2m DISH

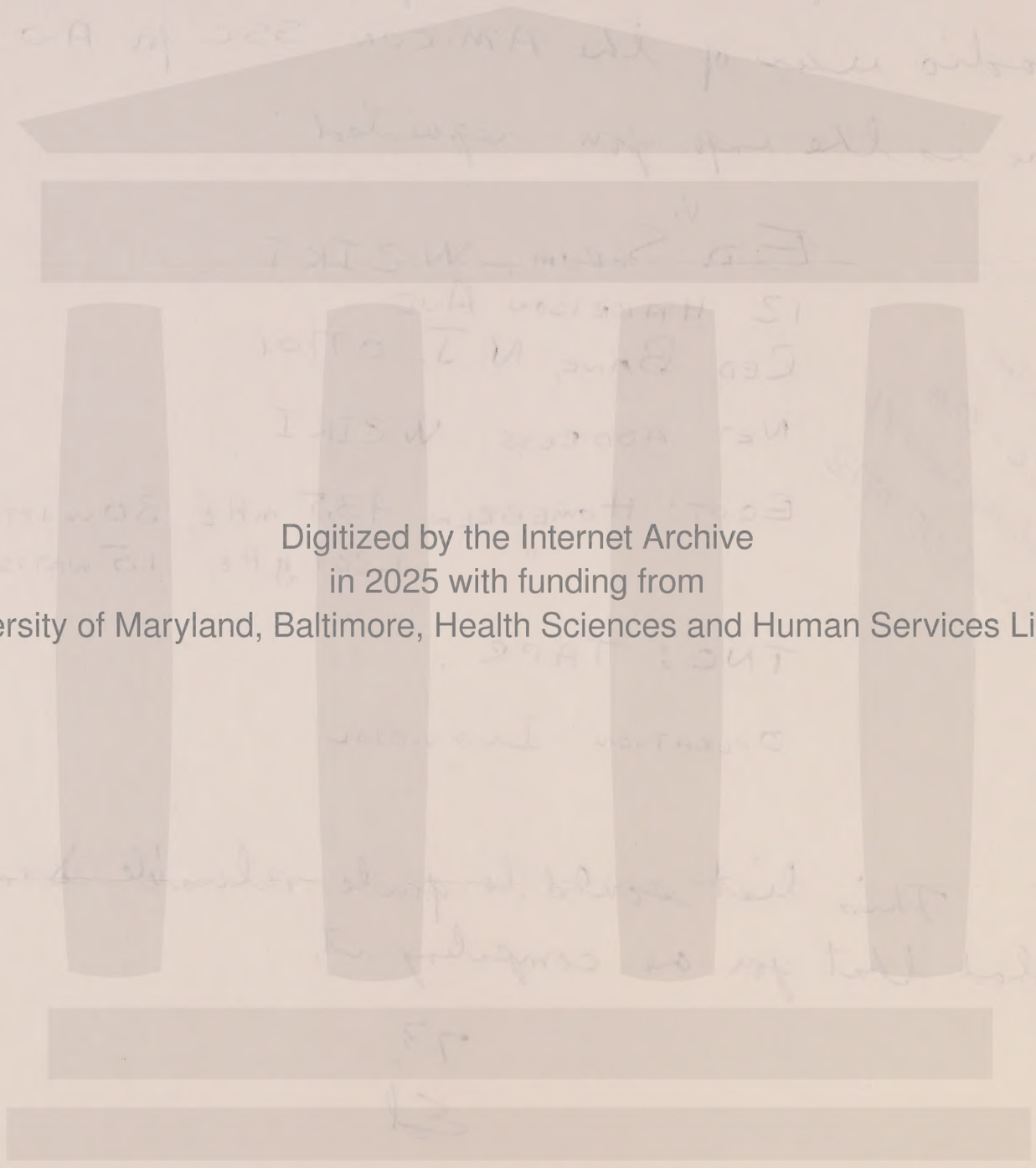
TNC: TAPR.

OPERATION: INDIVIDUAL

Bell Labs
RM 2C-329
Crawfords Corner Rd
Holmdel NJ 07733

This list sould be quite valuable. I am glad that you are compiling it.

73,
Ed



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https://archive.org/details/corr-magnuski-ka6m

13 April 1983

Hank Magnuski, KA6M
311 Stanford Ave.
Menlo Park, CA 94025

Dear Hank,

A belated note to thank you for a very enjoyable program that you put on during the West Coast Computer Faire. The Amateur Radio Computer Networking Conference was a huge success. The Committee deserves a round of applause from the amateur radio community.

I have a TAPR Beta TNC and a Vancouver TNC. Also, I am working on a Packet BBS (PBBS?) for the Los Angeles area and hope to have it up and running in the next few weeks. But, the reason I am contacting you -- At the conference you mentioned to me that you were working on some software to run in the Vancouver board that runs AX.25 protocol. Is it released yet? If not do you need help debugging it? Could I get a copy of it from you? I have a CP/M system with 8" drives and would send you a blank disk or two, depending how much there is!

Thank You es 73's

Don Jacob

Don Jacob, WB5EKU
16031 Tuba St.
Sepulveda, Ca 91343
(213)-892-1823

Sent 4/23

WAYNE GREEN INC.
PETERBOROUGH, NEW HAMPSHIRE 03458 USA

February 18, 1983

Mr. Hank Magnuski KA6M
311 Stanford Avenue
Menlo Park CA 94025

Dear Hank,

73: Amateur Radio's Technical Journal is looking for manuscripts about digital communications, and since you are operating one of the first packet repeaters in the country, I thought you might be able to assist us.

We are interested in articles which would tell our readers how to make equipment for packet radio systems, RTTY, and AMTOR. I am particularly interested in hearing about your system because, to my understanding, it uses the Vancouver Digital Group protocol rather than the Tucson method.

We are also interested in hearing about any experimental digital communications systems currently being developed.

If you would like to write about any of the topics I have mentioned, please let me know. And please tell your associates that 73 is looking for articles in this field.

Sincerely,

Avery L. Jenkins WB8JLG
Technical Editor
73: Amateur Radio's Technical Journal

ALJ/nln

73 MAGAZINE
MICROCOMPUTING
80 MICRO
DESKTOP COMPUTING
INCIDER
SELLING MICROS
INSTANT SOFTWARE
LOAD 80
WAYNE GREEN BOOKS
WAYNE GREEN INTERNATIONAL

Tandem Radio Amateurs Club
19333 Vallco Parkway
Cupertino, CA 95014
January 24, 1983

Hank Magnuski, KA6M
311 Stanford Ave.
Menlo Park, CA 94025

Dear Hank,

This letter is to thank you once again for the excellent, informative, and professional presentation which you made for our ham club on Jan. 20, 1983. Many of the club members have indicated their appreciation of the talk, and their enthusiasm for pursuing a club project in packet radio communications. The information package which you supplied was also extremely helpful.

I will certainly make a point of keeping you posted on our progress in packet radio. Perhaps next time we will be able to demonstrate some of our own equipment!

Many thanks and 73,

David A Gray

Dave Gray, KE6N

TANDEM

DAVE GRAY
Development Engineering

TANDEM COMPUTERS INCORPORATED
19333 Vallco Parkway
Cupertino, CA 95014
(408) 725-6000
Telex 171648

THE SULPHUR MOUNTAIN REPEATER ASSOCIATION
POST OFFICE BOX 5131 • VENTURA, CALIFORNIA 93003

16 NOV 82

Hank Magnuski
311 Stanford Ave
Menlo Park, Calif 94025

Dear Hank,

Our organization recently put up a data repeater in preparation for making a packet repeater out of it for linking up and down the coast. We are participating in the TAPR Beta tests and want to help in repeater testing.

I have your introductory data package describing your system. In it you mention the availability of the schematics and software you use. I'm not sure we want to do the same thing but we figure we can get lots of ideas on the necessary repeater and system functions necessary from your program, etc.

How can we obtain this information?

73,

Paul

D. Paul Gagnon N6MA
Sulphur Mtn Repeater Assoc.
3800 S. J Street
Oxnard, Calif 93033

Curtis
GAMMATECH
2452 Embarcadero Way
Palo Alto, CA.
94303

Dear Curtis,

Junior Davies, W8FIV, and Myself, W6OTH, enjoyed your October meeting. Unfortunately work and home responsibilities prevented us from attending the one in November.

Per your request in the last dispatch, I am enclosing a check for $10.00 for mail support for both of us.

We are very interested in furthering the Bay Area Packet usage. As Junior said, we will be interested in putting up an additional system here in the south bay that can work in conjunction with yours. Our discussion on the way home concluded that a cross linked 2m and 220 machine would be educational and would allow for expansion. We are wondering if a non-repeater frequency should be selected on 220 using 19.2 Kb FSK to provide higher speed support? FSK is easy to generate and can be derrived from the FM discrimiator. A non-FM channel would be required for the higher data rate. Both systems 2m and 220 would be controlled by a dedicated processor.

We have now acquired multibus prototype boards, Intel 8273 SDLC chips, and a 1200 baud modem. The SS/SD CPM diskette is for the line control code you promised would help us get up and running. You also said you were testing with a multibus system and would forward a copy of the board schematic.

If there is additional information needed, or any questions I can answer, please don't hesitate to call.

Tracy F Sienknecht

Tracy Sienknecht, W6OTH
6055 Foothill Glen Dr.
San Jose, Ca. 95123
408-578-2785

Sent 2/1/83

Dear OM, KA6M

Reading your recent message posted to AMSAT BB, I learned that you have completed LIPM/TIPM version 5.1.

I would like to have a copy of sources on an 8" CP/M SSSD diskette and I sent you $30.00 ($25 for software and $5 for postage) in cash today.

Please send me a copy a.s.a.p. to the following QTH I'm looking forward to seeing it.

Mr. Mikiyasu Nakayama
Nakano-ku
Tokyo 164 Japan

By the way, many thanks for our conversations in S.F. I appreciated it very much and also I was impressed with your "live" demonstration at Civic Center. My friends and I have been working on JAS-1/PACSAT and the experience I had there is of great value. Please keep up the fine job.

73

Mikiyasu Nakayama (JR1SWB)

P.S. If $5 is insufficient for postage, please let me know. I'll send the balance.

cc: to KA6M (via "conventional" letter)

Kent C. Myers

5 Sydenham St.
fax, VA 22031
) 573-6437

6403 FIREFLY DR.
SAN JOSE, CA 95120
28 NOVEMBER 1982

HANK -

THANK YOU FOR THE MOST INFORMATIVE PACKAGE ON PACKET RADIO AND THE FUNCTIONING OF THE KA6M REPEATER.

WHILE I STILL HAVE ALOT OF "CATCHING UP/READING" TO DO ON PACKET RADIO NETWORKS, I WOULD LIKE TO BEGIN CONSTRUCTION OF A TNC. I SEEM TO HAVE ALL THE OTHER PIECES, INCLUDING A BARE-BOARD BELL 202 COMPATIBLE MODEM.

I WOULD PREFER BUYING A BARE TNC BOARD AND STUFFING IT MYSELF, EXCEPT FOR SPECIAL ITEMS LIKE PROMS.

WOULD YOU PROVIDE ME WITH THE SOURCE OF THE HARDWARE/SOFTWARE MENTIONED IN YOUR DATA PACKAGE? IT WASN'T CLEAR (TO ME) WHETHER IT WAS AVAILABLE FROM YOU, OR VADCG.

THANKS AGAIN FOR THE INFORMATION!

73
Don KE6PX

DON WHISNANT

4/23

Packet sent 6/16/83

Kent C. Myers

3205 Sydenham St.
Fairfax, VA 22031
(703) 573-6437

1 June 1983

Hank Magnuski
N. Cal. Packet Radio User Group
KA6M
311 Stanford Ave.
Menlo Park, CA 94025

Dear Mr. Magnuski:

I read about your group in Infoworld, and the idea of packet radio sounds fascinating. I'd appreciate receiving any material you might have which describes your facilities and how you use them. I have a friend who is designing some connection between radios and computers, and I'll send you something about that when he finishes it. Thanks for any help you can give me.

Sincerely,

Kent Myers

Packet
Sent 6/16/83

T. J. PIEPER
251 RUTH PLACE
CLINTON, IOWA 52732

5/21/83

I would appreciate it very much if you could supply me with information concerning the "TERMINAL NODE CONTROLLER" PACKET RADIO CONTROLLER BOARD, as you were reportedly demonstrating at the West Coast Computer Faire.

thank you,

T.

5/27

Dennis A KING N6KD
PO BOX 692
Amador County
Jackson CA 95642

May 14, 1983

Hank Mitkowski
K4GMH

Sent 5/18/83

Dear Hank,

I recently read an article in Info World referencing the No. Cal. Packet Radio group. I would like additional info + would be interested in adding a repeater at my location - my site is at 2700 ft. elevation -- could provide coverage from Redding to Modesto + Bay Area. I work for a computer manufacturer which sells Y.25 packet switching

73
Dennis N6KD

KA6M-

Hank-

Saw your name & address in INFOWORLD as a person to contact re packet-radio. A couple questions I have:

1. Is there a local Bay Area group?

2. Is there a net for exchanging technical information?
   If so what frequency?

3. Can you recommend any literature references?

I saw a copy of ~~PACKET RADIO~~
PACKET RADIO a paperback by two Canadian amateurs but couldn't keep it & cannot locate one.

Any info or leads you can supply will be appreciated.

Sent 6/6/83

T-nx

Tim Healy N6TH
15620 LOMA VISTA
LOS GATOS, CA.

P.S. I enclosed an SASE for your convenience.
T.

Hank Magnuske KA6M
311 Stanford Avenue
Menlo Park, Ca 94025

John TANNER VK2ZXQ
C/O Telecom Australia
76 Botany Road
Alexandria 2015
N.S.W Australia

Dear Hank,

Please find enclosed a cheque for $20 US to cover the cost of sending me a copy of the Proceedings of the Packet Radio conference held last month.

A total of six stations are now operational here on 'packet' with one repeater, using software we have just obtained from VE3DVV in Canada. This new repeat software is much improved over the older "simple" repeats giving us features such as selective repeat, time of day etc.

We hope, in the future to implement the new HX.25 software in both the repeats and TNC's when it becomes available.

Activity on 'packet radio' is slowly increasing down here as the voting system is attracting a lot of attention. I expect that the number of stations in operation will probably double in the next few months.

73's for now

John VK2ZXQ
20th April 83

Sent 6/6

JAMES HAAGEN-SMIT

353 Rio Lindo Ave. #3

Chico CA 95926 200 miles NE

WD6 BPR

146.58

Mike SPANN WB6 KTN

BCC: info copy

RICHCRAFT ENGINEERING LTD.

Phone: (716) 753-2654

DRAWER 1065
#1 WAHMEDA INDUSTRIAL PARK
CHAUTAUQUA, N.Y. 14722

July 21, 1983

Dr. G. Stewart Beal, VE3MWM
2391 Arnold Crescent
Burlington, Ontario
CANADA L79 4J2

Dear Stewart:

A brief update on the packet progress of us gringos 'south of the border' in western New York state. Trust you received the copy of Volume 1, 'Packet Radio Using the Software Approach' that I sent you last month? If not, I would be pleased to send the 'father of packet radio' another one. Since you are the father, possibly Doug Lockhart is the 'mother.'

On the 4th of July (a most appropriate day), I finished the AX.25 protocol program for Volume 2. It is head and shoulders above and beyond Volume 1's rather Mickey Mouse program in that it converts, zero deletes, and stores the received SDLC bytes in memory in ASCII/decimal format in real-time. This marvelous speed-up was through the kindness and assistance of Gilbert Boelke-W2EUP who is a real programming genius.

Another interesting facet of Volume 2 is that the user may specify any number of frames per packet with frames of ANY length desired and the program automatically formats and transmits them as ordered. Normally the AX.25 maximum info field length of 256 bytes per frame and SDLC maximum of 7 frames per packet is used, but it is NICE to be able to set these parameters as desired (just press a key). Following AX.25, the program will format frames/packets either through a repeater or direct, as desired. Whereas Volume 1 required manual (press space bar) resending of unacknowledged packets, Volume 2 is entirely automatic and allows the user to specify the number of retries to ad infinitum - ad nauseum.

Probably the biggest break-through in Volume 2's software program is the 'speed' which my new FCS/CRC subroutine calculates the CRC value. With a 4 MHz clock, it works out to approximately 40 microseconds per byte, more than an order of magnitude faster than my crude Volume 1 subroutine. Crude nevertheless, but it worked.

This breakthrough was due entirely to an excellent paper in the June '83 issue of 'IEEE Micro' magazine by Aram Perez: 'Byte-wise CRC Calculation,' pp 40 - 50. With lotsa luck I managed to convert his CRC16 - X[16+X[15+X[2+1 generator polynomial program to the appropos SDLC (IBM, CCITT) generator polynomial program using X[16+X[12+X[5+1.

Boy oh boy, it is F-A-S-T. So fast that I can do the CRC checking in the receive mode in real-time, or conversely, after the packet is received with virtually no significant time penalty whatsoever. This break-through has removed the LAST objectionable feature of my software approach versus the hardware approach at 1200 and 2400 Baud.

For higher Baud rates, the new Z-800 microprocessor with its 10 MHz to 25 MHz clock will allow the software approach to compete very well with the hardware approach at 4800 and 9600 Baud rates. I personally do not forsee any higher Baud rates than 9600 used on the amateur bands in our lifetime except possibly with satellites.

My good friend and neighbor, Gilbert Boelke-W2EUP in West Seneca, NY has completed his own software routine for the Vancouver protocol that fits into a single 2732 EPROM. He is now starting on the AX.25 protocol and will shoe-horn both the Vancouver and AX.25 protocols into a single 2764 EPROM. No expensive dedicated SDLC chips are required.

The PCB includes a Z-80 so the system will work with most any variety of output device from a stand-alone RTTY machine to a cheapy microcomputer such as a VIC-20 or Sinclair.

Gil's brilliant approach promises a very low entry cost into Packet Radio for the newcomer and will be a real winner, I predict. Three prototype/production boards have been completed by GLB Electronics in Buffalo and exhaustively tested by W2EUP, K2IMF, and WB2VEU.

Well now, so much for the western New York progress report. Let me hear how things in the Hamilton/Toronto area are progressing. I can copy your packet repeater about 25 miles northeast of Toronto at Stouffville, Ontario when ground wave conditions are 'right' but it is indeed a long haul from Chautauqua Lake on the New York/Pennsylvania border.

I suspect Doug Lockhart has long since completed his monumental effort in reprogramming the Vancouver board's EPROM to work AX.25? Actually, it should be quite easy to accomplish since the Intel 8273 SDLC chip does all the truly hard work. Programmers with your vast experience and knowhow should have little difficulty adapting it to their own favorite brand microcomputer or video terminal.

I am circulating copies of this letter to a number of packet friends in the U.S. and abroad to bring them too, up to date on local packet news and activity.

Best wishes and 73,

Bob

Robert M. Richardson, W4UCH

RMR:nc

International Business Machines Corporation

555 Bailey Avenue
P.O. Box 50020
San Jose, California 95150

September 9, 1982

Hank Magnuski, KA6M
311 Stanford Avenue
Menlo Park, CA 94025

Dear Hank,

Sorry for the long delay in getting this check to you. Our treasurer has been on vacation and we had to wait until he returned to get the check. We calculated the amount based on a total of 60 miles at 20¢ per mile.

Your presentation was very interesting and your demonstration was most effective. We had many comments about the excellent program which you provided. Maybe some of the members will get equipment on the air as a result of the stimulus which your presentation provided.

This meeting was one of the best attended which we have had to date. I believe this is a result of the subject which you presented which has a high level of interest.

Thank you for taking your time and energy to give us this most interesting program.

Very truly yours,

Marv

Marv Hayes, NF6G
Secretary, IBM Amateur Radio Club
M45/C32
Santa Teresa Laboratory

PO Box 905
Melbourne, FL 32901-0016

July 5, 1982

Dear Henry:

Our organization is developing a packet switching system based around a simplex repeater, a configuration you are most likely to be intimately acquainted with.

Our most recent copy of the rules are difficult to extrapolate into a real network. However, I'm trustee for the club's station, and I have to be concerned with maintaining compliance with the FCC regs. My major questions are below:

1. Is it lawful to run Bell 202 modems at 1200 baud ASCII, (or, eight data 2 stop bits) on a two meter simplex channel? Will any of the bandwith or signaling requirements be compromised?

2. Could the poll sequence be construed as beacon operation, or simply as a request for contact?

On a different note, we'd like to learn more about your network. Is anything other than switching provided at the net host? As you can see, we still have much that needs to be resolved. But I hope we can do it before some of us go back to college in the Fall hi!

73,

Howard

HOWARD GOLDSTEIN, N2WX
TRUSTEE
COUNTRY CLUB A.R.S.

Sent 10-19

Ralph Karls/WB7VGS
18010 SW Augusta Lane
Aloha OR. 97006

Dear Hank

A few of us in this area are just begining to get interested in PACKET radio. Our local ARC news letter reprinted an artical with your name so I'm writing for any information you may have that may help us get started.

Two of us have APPLE computers and the others have TRS 80s or etc.

I do have the TAB book on PACKET RADIO. I've been told that it's not accurate about the most used protocol.

I'm looking forward to hearing from you.

THANKS & 73s

Ralph. Karls.

Sent 10-15

6403 FIREFLY DR.
SAN JOSE, CA 95120
24 OCTOBER 1982

HANK MAGNUSKI, KA6M
311 STANFORD AVE.
MENLO PARK, CA 94025

DEAR HANK:

I PICKED UP A COPY OF YOUR FLYER ON PACKET RADIO AT THE RECENT AMPEX HAMFEST & AUCTION. WOULD APPRECIATE SOME ADDITIONAL INFO ON WHERE I CAN PURCHASE THE VADCG BOARDS AND HOW TO INTERFACE WITH THE NETWORK.

I HAVE THE USUAL ASSORTMENT OF HF AND VHF EQUIPMENT, PLUS A HEATH H89 COMPUTER (WITH RS232) RUNNING HDOS OR C/PM. ALSO HAVE RTTY (COMPUTER OR ASR-33) USING AN ST-6 TU.

ENCLOSED IS A SASE FOR YOUR CONUENIENCE. THANKS IN ADVANCE FOR WHATEVER INFO YOU CAN PROVIDE.

73

DON WHISNANT
KE6PX

Sent Reply

HANK,

Please send another information packet (pardon the pun) to the fellow on the enclosed label

THANKS,

AA4KB/6

DICK BACON WD4 NVA

1715 24 1/2 ST

ROCK ISLAND ILL 61201

Sent 12-10

860 Serenidad Place
Goleta, Ca. 93017
10 June 1982

Mr. Den Connors, KD2S
President
Tucson Amateur Packet Radio (TAPR)
P.O. Box 22888
Tucson, Az, 85734

Dear Mr. Connors,

I wish to personally thank you and your Packet Radio staff for the absolute terrific presentation given at the Southwest Division ARRL Convention this past weekend. There is no doubt that TAPR is at the forefront of the most exciting engineering effort to take place in Amateur Radio in many years. Enclosed you shall find my check and application as a Charter Member of TAPR and with it the hope that I may in some way give my support to your superb group efforts.

Since many amateurs from Santa Barbara attended the Packet session I am sure we shall see in this locale increased interest in this style of communications. Presently there are perhaps 3 VADCG boards under various stages of construction and I estimate it will be only a few more months before technical evaluation will begin and the familiar bursts are heared from this area. We have a collective interest in becoming a Beta Test Site and shortly TAPR will receive the name of our local Site Coordinator who can take responsibility for our "south coast area" and satisfy the test participant requirements.

The City of Santa Barbara is in a unique geographical location; a coastline city 110 miles NNW from Los Angeles puts us on the doorstep of the proposed Los Angeles to San Francisco portion of the Packet mainline. It is possible that we may play a heavy part in this activity.

To facilitate local interest amongst those interested in Packet Radio I have pulled together a listing of 30 individuals within a 3 county area known as the "Tri-Counties Digital Society", the name selection is not important at this time but we are people who own, operate, and have a sincere interest in computers, data transmission, message handling, and expedient methods of message/data transfer via Amateur Radio. The group is not yet formed but we could very well act as a point of contact for all the myriad of things going on in our geographically wide tri-county area for pulling together those of like interest, especially that of Packet Radio.

Looking forward to "Progress In Packet".

Sincerely,

Bill Talanian

Bill Talanian, W1UUQ/6

P.S. Would appreciate a [illegible] the Constitution and By-Laws.

3 BAYAU TRAIL
MEDFORD, NJ 08055
, BER 29, 1981

23 MAR 1982

HANK -

THE BLACKSBURG GROUP, INC.

P. O. Box 242 • Blacksburg, Virginia 24060 • Phone (703) 951-9030

TO Mr. Hank Magnuski, KA6M
311 Stanford Avenue
Menlo Park, CA 94024

DATE April 6, 1982

SUBJECT

Dear Hank:

Thanks very much for the package of Packet Radio material. I really appreciate your sending it. I've enclosed $5 to help cover the cost of mailing and copying.

73

Jon Titus, KA4OVK

Form ML6 N72 c The Drawing Board Inc., Box 505, Dallas, Te

Date: April 1, 1982
From: Curtis, N6ECT @PPRS:SFO
To: All Persons Interested in Packet Radio

The next general meeting of the Pacific Packet Radio Society will be held Tuesday -- April 6, 1982 -- 8:00 PM -- at the AMPEX Cafeteria. The AMPEX Cafeteria is located in Redwood City on Broadway, two blocks south of Route 84. From 101 take 84 West (Woodside Road/Seaport Blvd.) to the first left which is Broadway. Go south two blocks and look for the AMPEX buildings. There is a pond and a flagpole in the center of the complex. The cafeteria is the first building on the north side of the pond and has many glass windows.

Subjects and topics to be discussed include planning our network link to L.A., the formal organization of the Society, a report on the demo at the Computer Faire, a presentation of a timing analysis done by Dave Engle, N6FTZ, voting on the minutes and bylaws of the PPRS, a report on the status of the AMICON net, and of course, any other late-breaking news which might occur.

I hope that everyone had a chance to see the write-up in the April 1982 issue of QST mag. on page 32; 'FIRST TRANSCONTINENTAL PACKET-RADIO QSO', and also had a chance to hear the WESTLINK broadcast about the group of L.A. hams that used packet radio in an airplane and a van, via 2 meters, linked to the Information Sciences Institue, which was then sent to Virginia via the ARPANET, and into another users house via the telephone. Another thing that might be of interest to all 'packeteers' are the 'skeds' that Doug Lockhart, VE7APU/3, is having with the club station at the University of Linkoping, SK5EU. These are usually held on Sundays, and are tried on three different frequencies: at 1500 UT on 14.178MHz, at 1515 UT on 21.220MHz, and at 1530 UT on 28.470MHz. Doug says that one should break in on CW to join the QSO, and they would be glad to move to the U.S. phone band.

73, Curt

23 MAR 1982

HANK –

FIND ENCLOSED DISCETTE AND HOPEFULLY ENOUGH RETURN POSTAGE MONEY.

DURING OUR PHONE CONVERSATION OF 3/14/82 YOU SUGGESTED THAT IF I SENT YOU A BLANK DISCETTE, ~~THAT~~ YOU WOULD PROVIDE AS MUCH SOURCE/OBJECT CODE AS POSSIBLE. OF INTEREST IS THE SOFTWARE WHICH CONFIGURES THE TNC BOARD AS A PACKET REPEATER. ALSO, (IF YOU HAVE SOMETHING WE CAN USE), PLEASE COPY A CURRENT VERSION OF THE TIP/LIP ~~PROGRAMS~~ SOURCE.

ORDERS FOR THE TNC KITS ARE SOON TO BE MADE! WE PLAN AN INFORMAL GET-TO-GETHER FOR SOME OF THE LOCAL HAM/COMPUTERISTS & THIS WILL NO DOUBT STIMULATE MORE ACTIVITY HERE IN THE NO. SANTA BARBARA COUNTY AREA.

I REALIZE THAT WE IN THIS AREA HAVE A LOT TO LEARN AND MUCH TO ACCOMPLISH, JUST IN GETTING A LOCAL AREA NETWORK RUNNING. HOWEVER,

I'm looking down the road to the time when we'll want to exchange data with the Bay Area or L.A.

If, in the next few months, we are able to establish a packet link to (let's say, your repeater) the north, I would appreciate your thoughts on how to accomplish this.

As I mentioned before, I have rack space on Black Mtn. (so. San Luis Obispo co.) @ 4000 ft. which talks nicely to the Southern Santa Clara valley area (Mt Chuel, Mt. Umunum, Loma Prieta). Also, rack space for a packet repeater is available on Santa Ynez mountain (central Santa Barbara county) which does very well for most coastal areas all the way to San Diego.

Once again this is no doubt always off, but I would like you know about the potential sites which are available for the future growth of packet radio.

FINALLY, I WOULD LIKE TO GET IN TOUCH WITH THE FOLLOWING PEOPLE WHO I BELIEVE ARE ACTIVE IN SO. CAL. (I HAVE NO PHONE #'s & ADDRESS's).

1. WALLY, WA6JPR
2. BRIAN KANTOR, WB6CYT (Some where in SAN DIEGO)

THANKS FOR YOUR TROUBLE AND HOPE TO HEAR FROM YOU SOON.

SINCERELY,

Jim Loofbourrow
WA6VPL
1324 W. Lime
Lompoc CA 93436

Tel: 805-866-9853 8:00-5:00
805-736-2581 Home

3 BAYAU TRAIL
MEDFORD, NJ 08055
NOVEMBER 29, 1981

HANK MAGNUSKI
311 STANFORD AVENUE
MENLO PARK, CA 94025

DEAR HANK,

THANK YOU FOR YOUR REPLY(NOV 10) TO MY HANDWRITTEN LETTER. YOU WERE VERY KIND TO INCLUDE THE VARIOUS DATA YOU HAD COPIED. THE MATERIAL IS USEFUL. I HAVE BEEN WADING THROUGH 'COMPUTER NETWORKS' BY ANDREW S. TANENBAUM, PRENTICE-HALL, 1981. THE PARTS ABOUT QUEING AND NETWORK THEORY ARE A BIT MUCH FOR LIGHT READING, BUT THE PORTIONS ABOUT ACTUAL NETWORK PRACTICE ARE VERY INTERESTING.

MY TNC BOARD IS FULLY CONSTRUCTED AND I'M AWAITING ONLY THE EPROMS FROM DAVE BORDEN. SPOKE WITH HIM ON THE LANDLINE TODAY ND HE INFORMED ME THERE IS A GUY WITH A TNC BOARD LIVING JUST A FEW MILES EAST OF HERE. PERHAPS THERE WILL BE LESS TROUBLE STARTING TO USE THE BOARD THAN I FEARED.

THE MAIN REASON FOR THIS LETTER IS FURTHER INQUIRY ABOUT THE CERMETEK MODEM. DAVE TOLD ME YOU HAD IT OPERATING CORRECTLY NOW AND WERE ATTEMPTING TO FIND OUT IF THEY WILL CONTINUE TO BE IN PRODUCTION. I WROTE TO THE COMPANY AND THEY SENT A GROUP OF LITERATURE AND THE NAME OF A DISTRIBUTOR, ETC. IF YOU DECIDE THEY ARE A SAFE BOARD TO USE AS CONCERNS CONTINUED AVAILABILITY, I WILL ORDER ONE RIGHT AWAY. THAT SEEMS TO BE THE BEST ALTERNATIVE TO ME--NOT TOO EXPENSIVE AND READILY AVAILABLE VS WAITING FOR A GOOD DEAL USED MODEM OR THE DEVELOPMENT OF A HOMEBUILT ALTERNATIVE.

DON'T WANT TO MAKE EXCESSIVE DEMANDS ON YOUR TIME, BUT I AM ANXIOUS TO FIND OUT ABOUT THE CEREMTEK UNIT, SINCE THE MODEM IS LIKELY TO BE THE BIGGEST OBSTACLE TO GETTING ON THE AIR.

YOURS TRULY,
GWYN REEDY, W1BEL

Gwyn

December 8, 1981

KA6M:

Sure would appreciate some information on your Packet Repeater that was described in the last issue of World Radio News. There seems to be some interest in this area for something of this nature. Would appreciate any observations or information that you might have on the subject.

Sincerely,

Nyles McKeithan KS4S
441 East Arrowood Road
Apt. #K-11
Charlotte, N.C. 28210

Sent 12-16

30 Nov

Dear Hank,

Please send me 3 sets of 8273's & 8250's @ 46.50 a set.

Thanks Alot
Pete WB9FLW

Please Send To :

Peter Eaton WB9FLW
5901 JFK Blvd Apt 622
N. L. R., Ark 72116

Pete

ROBERT TAYLOR
925 Waverly St. (#101)
Palo Alto, Ca. 94301

Hank Magnuski
311 Stanford Av.
Menlo Park, Ca.

Hank,

Enclosed is the $5.00 owed. Your effort in making these modems available is very much appreciated.

More generally, you have done an impressive job of facilitating local (& not so local) interest in Packet Radio.

Many Thanks,

Robert Taylor

ROBERT TAYLOR

962 Cheyenne St.
Costa Mesa, CA 92626
April 26, 1982

Dear Hank, KA6M

I was just given the time and room of our Packet Radio Forum. It will be held June 5 (Saturday) at 9 AM in the Council/Chamber room 5. The panel will include WA7JPR, KA6M, NG6Q, KD2S, KN6W and WB6YMH. I would like each participant to give a short description of their interest and activity before we open it up to questions from the audience.

I hope we possibly can have a small get together later that day of those more deeply into packet radio as well as a larger social gathering at a "hospitality" room.

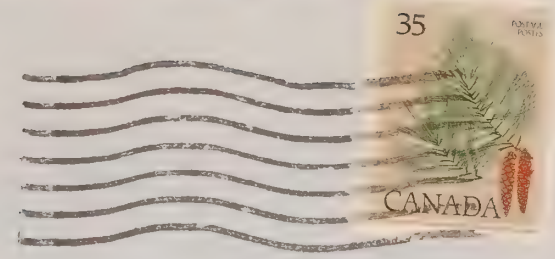
If you have any questions, please write or call me at 714-549-8516 after 1 PM.

Very 73,

Fried

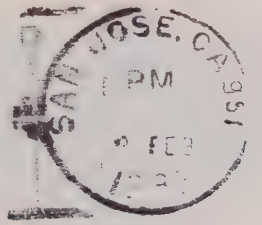
Fried Heyn, WA6WZO

JEAN-NICOL DUBE
2610-1E AVENUE
ST-GEORGES AVE
CANADA G5Y 3P2



KAGM

Hank Magnuski,
311 Stanford Ave.,
Menlo Park
CA 94025


SAN JOSE, CA
PM
FEB

St Georges 02-02-82

KA6M
Hank Magnuski,
311 Stanford ave.,
Menlo Park,
Ca 94025

Hank, I will be interested in more information about our digital repeater. We hope to have one in Quebec city area in 83.
We work on hardware now, TNC board from Vancouver.

Tanks

VE2 BPD
JEAN-NICOL DUBE,
2610 - 1e AVENUE,
ST-GEORGES Bce.,
QUE., CANADA
G5Y-3P2

Sent 2-17

12/24/81

Hank Magnuski
311 Stanford ave
Menlo Park, Ca 94025

Dear Hank,

I am impressed with your packet Repeater and would like to do the same in this area. We are in Ventura County, Nort west of Los Angeles. Our repeater club runs 5 repeaters/remotes and quite a number of members are also into Computers So the next logical step is a packet Repeater.

I've been corresponding with the Vancouver group and hope to use their TNC boards.

The beauty of packet is the network aspect. I'd like to think we could Someday link.

Can you help me get Started? I'm interested in the Radio you use (Bandwidth-Baud rate) the Station mode Software and equipment, the Modem, and any Specifics on TIP Software for Computer/ASCII interface.

Received 1-8-82

Do you have plans to increase your system into a network? We want to cover our ARRL Section as a first step and link to Los Angeles and North as a later step.

I'd appreciate any help.

Thanks,

D. Gagnon

D. PAUL GAGNON
N6MA
3800 So. J ST.
OXNARD, CA 93033

3 Dec

Paul & Dave & Hank:

Thanks for sending the conference proceedings Paul. It looks as though you fellows put on a great conference.

For the past two years I've been following the packet radio developments in the Newsletter from over in Belgium. Belgium has very strict regulations on ham radio so there is very little technical experimentation and none that I heard of on packet radio. (You even need a special license for RTTY!) I'm back in the states now and ready to jump in.

I'll be glad to offer my services in just about any area except the rf side of things. I have spent the last five years working in data comm with emphasis on SDLC/HDLC, X25, and Ethernet. I work for Intel as an application engineer. I authored the 8273 ap note so I'm very glad to see the VADCG group using the device. It's too bad the darn thing is so expensive although Mitsubishi has said they will second source it so the price should come down. I know that Intel has a fair number of early 8273s which contain a few bugs (none of which would affect things at 1200 baud or can't be gotten around by software) which can't be sold. I believe these parts could be donated to a worthy cause (like ham radio) if it could be ensured

that they wouldn't appear in any commerical equipment nor anyone make money on them. If you think there might be any interest, I can persue it further.

If I may, I'd like to make a few comments on possible packet protocols. It's well known that every major semi-house is working on very sophisicated chips which include a large portion of a particular protocol in microcode. Western Digital has such a device for X25 and Intel is working on devices for both X25 and Ethernet. I would urge anyone working on protocol standards for ham radio to seriously consider adopting a standard for which devices will be built. (I might be biased but an Ethernet-like protocol seems very well suited to radio due to its asynchronous nature and the automatic collision detection.) Eventually, such devices will be very inexpensive and they'll virtually elminate the hassle of writing low-level protocol device driver software. I'll be glad to supply Ethernet specs and documentation if there's interest. (You can also get them free from the local Intel, DEC, or Xerox offices.) Ethernet is specified for a coaxial-based network at 10Mbps however the chips should work fine down to 300 baud. Most of the coax-specific parameters could be easily adjusted for a radio environment.

On a few unrelated items, is there any hf net of packet supporters? Has anyone heard of packet interest around Portland? I've drawn a zero on the local repeaters and at the club. Also, I'm now in the market for a 202 modem and I lost track of who in the newsletter was offering them. Help!

Thanks for taking the time on these ramblings. Let me know if I can help or if you hear of any activity up in this part of the states.

73,

John Beaston N6TY
Rt 2 Box 672
Hillsboro, Or. 97123

P.S. I'd appreciate if you fellows would keep the potential 8273 deal under-the-hat until it is finalized if there's interest.

Hank – I heard via some old friends that you gave a great talk at the West Valley ARC meeting in Los Gatos. They were impressed!

Sent 12-10

TX 79904

Hank,

Sorry I've delayed in getting back to you on chips for controller board.

Want (PLEASE!):

#2 — 8250 @ 12.25 ea

#2 — 8273 @ 35.00 ea

1 set programmed 2708 @ 15.00
1200 baud callsign "N4EO"

1 set programmed 2708 @ 15.00
1200 baud callsign "N5RG"

I get VADCG newsletters now & have joined AMRAD. $12.50

When we get moving here, an interesting possibility exists for packet communications experiment or data xfer. EL PASO participates in link (2mtr - 450 MHz) and can link to BAY area. That might set some sort of record for land line-of-sight relaying (packets).

73, Jerry Brown N4EO/5

Peter Salvisberg
HB9APC
Sulzbergstrasse 11
5430 Wettingen
Switzerland

Wettingen, July 28, 1983

Hank Magnuski
KA6M
311 Stanford Avenue
Menlo Park, CA 94025
U S A

Dear OM Hank,

being one of the HB9 hams interested in packet radio, I am planning to spend this year's vacation in California (visiting my sister). As there seems to be a lot of packet radio activity in California, I also intend to inform myself more about this subject.

Having read your articles in the proceedings of the "First ARRL Amateur Radio Computer Networking Conference" and also having found your address there, I wonder whether I could give you a phone call sometimes this October and maybe arrange for a short meeting.

With best 73,

Peter Salvisberg
HB9APC

9/19/83

Dear Packet Radio Enthusiast,

The "Charter" meeting of the Pacific Packet Radio Society will be held on Tuesday, February 23, 1982, 8:00 P.M., at the KRON-TV studios, in San Francisco. Here are the directions per "Mojo", AA4KB/6:

Cross the Bay Bridge to 101 North, or take 101 North from the south bay -- follow the signs towards GG Bridge. Eventually the "Central Freeway" will end with a choice of Van Ness Ave. to the right and Franklin St. to the left. Take the left path onto Franklin. Continue about four lights til you go one block beyond O'Farrell to Myrtle, a very small side street. Turn right on Myrtle and park in the Metro parking lot. KRON is directly on your right. Alternative (and cheaper or free) parking is available on Franklin, O'Farrell and Van Ness Ave.
KRON-TV is a large beige monolithic building. Sign-in with security in the front lobby. Meeting is on the third floor. KRON-TV 1001 Van Ness Ave., corner of Van Ness & O'Farrell. Everybody that attends this meeting will have a chance to be a charter member.

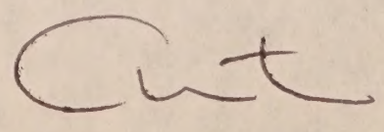
We will be discussing what has been happening locally and in other places in the country with packet radio, the new upcoming changes in the software, and formally organize the group. We hope to have the entire steering comittee there with individual reports on PPRS activities, and more.

In case you haven't been in touch for awhile, here are a few items of interest, although time will not allow for a complete report, as it is getting late for this mailing.

1). W6LLO and K1RT successfully exchanged HDLC packets on 14.075 MHz. To the best of our knowledge this is a first.
2). AA4KB/6 has his TRS80 running with the HDLC 8273 and is exchanging packets. He has offered to show others how to construct this addition, which does not tie up the serial port, and to exchange the software to make it work.
3). Each month, there is an increasing number of calls logged onto the DG at "packet central". For the month of January, there were 401 calls logged made by 21 various users. 268 of the calls were made via packet radio and 133 calls were made via telephone. *NOTE::: If you have an assigned "ID" number and are not active on the network, please let Hank, KA6M or me know, as we have others that are in need..Thankyou.
4). We soon hope to have a link that goes all the way to El Paso, Texas and beyond...(more news at the meeting).

There is a lot more information, but as I said before, time will not allow it at this time, to print it all. Packet radio is rapidly growing and we have been learning a great deal about it's workings. Come and share with us, the first meeting of the Pacific Packet Radio Society.

73, "Curtis",N6ECT, 644 Ashbury St., S.F., Ca. 94117



P.S. Was there a large black check mark on the envelope that you received this note in? If so, then drop me a post card saying that you would like to continue being on our mailing list, before the first of MARCH, or see me at the meeting. Thankyou -cas-.

Dear Packet Radio Enthusiast,

The "Charter" meeting of the Pacific Packet Radio Society will be held on Tuesday, February 23, 1982, 6:00 P.M., at the KRON-TV studios, in San Francisco. Here are the directions per "Mojo", AA6KB/6:

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73, "Curtis",N6ECT; 644 Ashbury St., S.F., Ca. 94117

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Thankyou -ccs-.

CONFIRMING OUR
_____ QSO ON
_____ 19__
AT _____ GMT
USING ____ WATTS

K6EER

HI! _____ UR _____ Mhz Sigs
RST _____ RIG _____
ANT _____

FRED HEWARD
1950 OAK KNOLL DRIVE ·
BELMONT · CALIFORNIA · 94002
U.S.A.

Will try to make the meeting - have gear about finished.

This is first mailing received. If there will be dues please count me in - just in case I have to miss the meeting (my wife is an invalid.)

73

Fred